

SAW Filter 897.0MHz

Model: TB0840A

Part No: MP06159

Rev No: 1

A. MAXIMUM RATING:

1. Operating temperature range: -40°C to 85°C
2. Storage temperature range: -40°C to 85°C
3. Input Power Level: 10 dBm
4. Maximum DC Voltage: 10V

B. CHARACTERISTICS:

Characteristics	Min.	Typ.	Max.
Center frequency F_c MHz	-	897	-
Maximum Insertion loss IL dB	-	28	30
3dB Band Width MHz	24	26	-
30dB Band Width MHz		29	32
Passband Ripple in $F_c \pm 10\text{MHz}$ dB	-	0.5	1.2
Group Delay in $F_c \pm 10\text{MHz}$ nsec	-	40	120
Absolute delay usec	-	0.82	-
Single Input Impedance Ohm	-	50	-
Single Output Impedance Ohm	-	50	-
Temperature Coefficient ppm/°C	-	-0.036	-

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C. FREQUENCY RESPONSES:

1. Wide band response

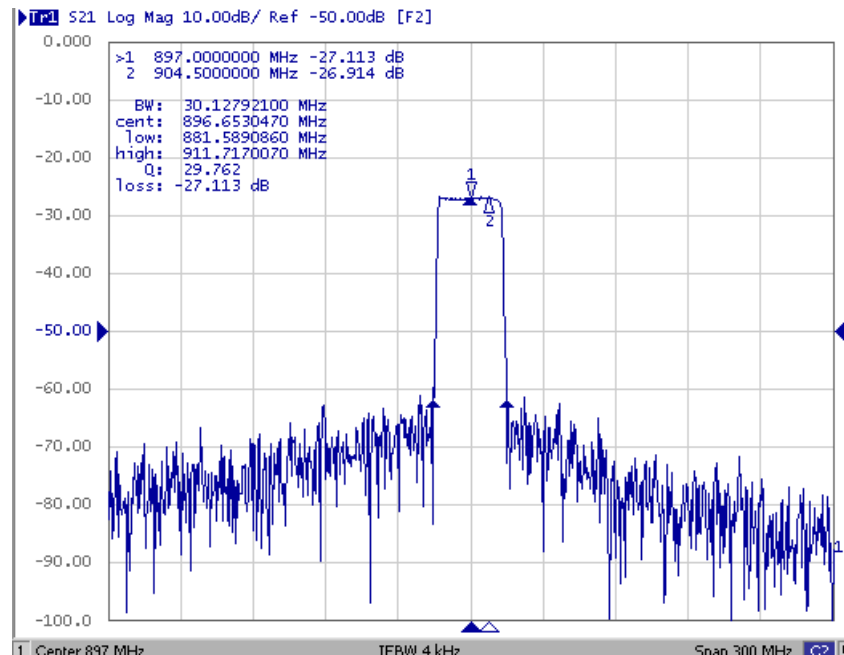


Fig. 1: Horizontal: 30MHz / Div, Vertical: 10dB / Div

2. Pass band & Group Delay response

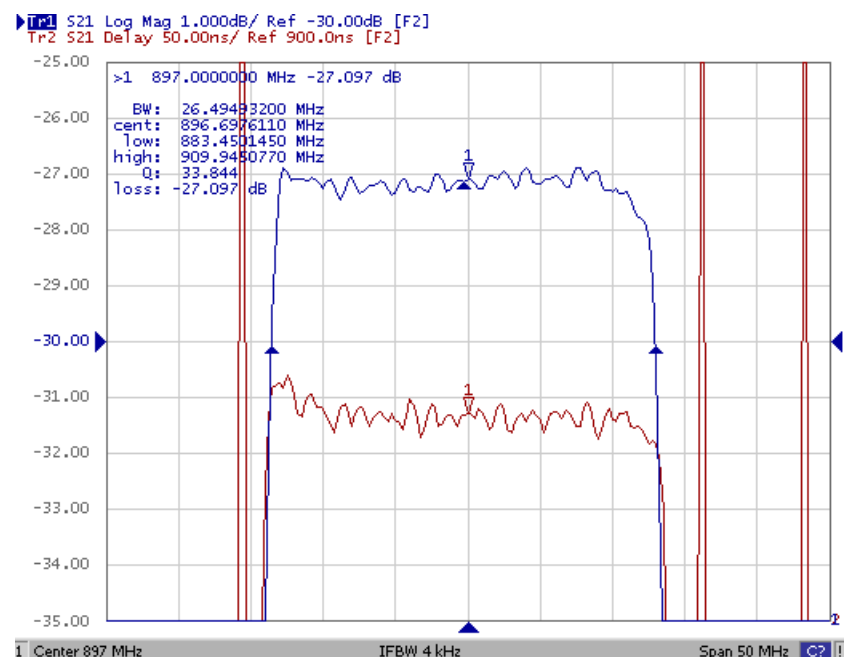
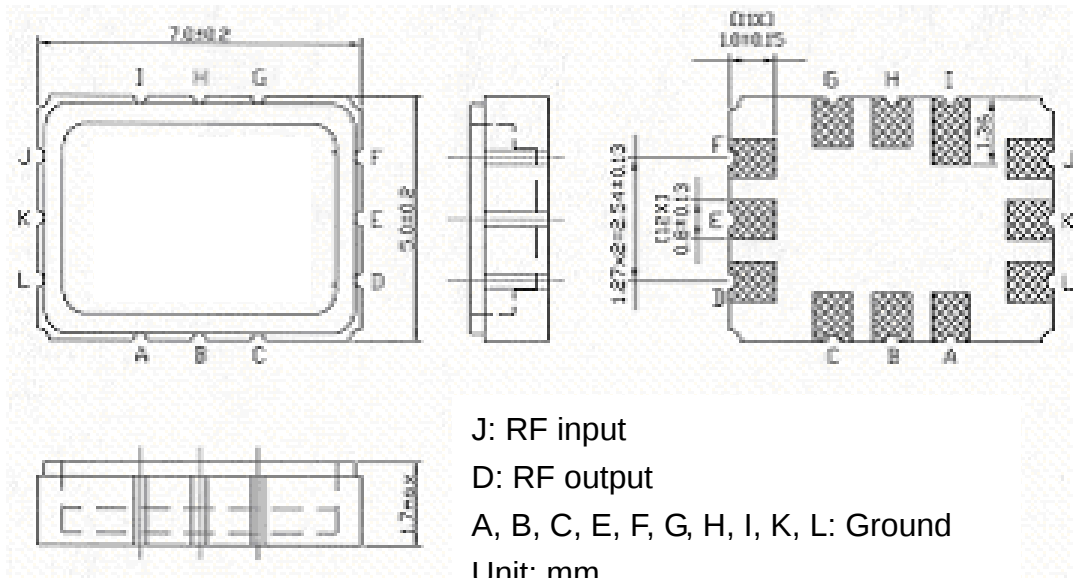


Fig. 2: Horizontal: 5MHz / Div, Vertical: 1dB / Div, Vertical: 50ns / Div

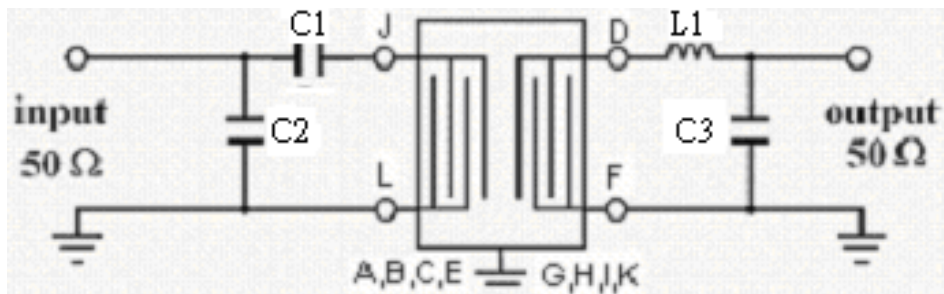
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D. OUTLINE DRAWING:

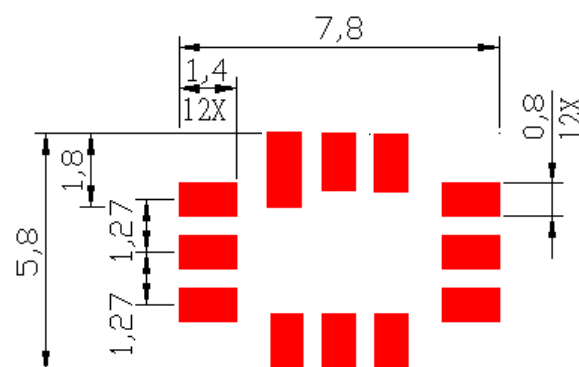


E. MEASUREMENT CIRCUIT:



$L1 = 3\text{nH}$, $C1 = 27\text{pF}$, $C2 = 10\text{pF}$, $C3 = 10\text{pF}$

F. PCB FOOTPRINT:

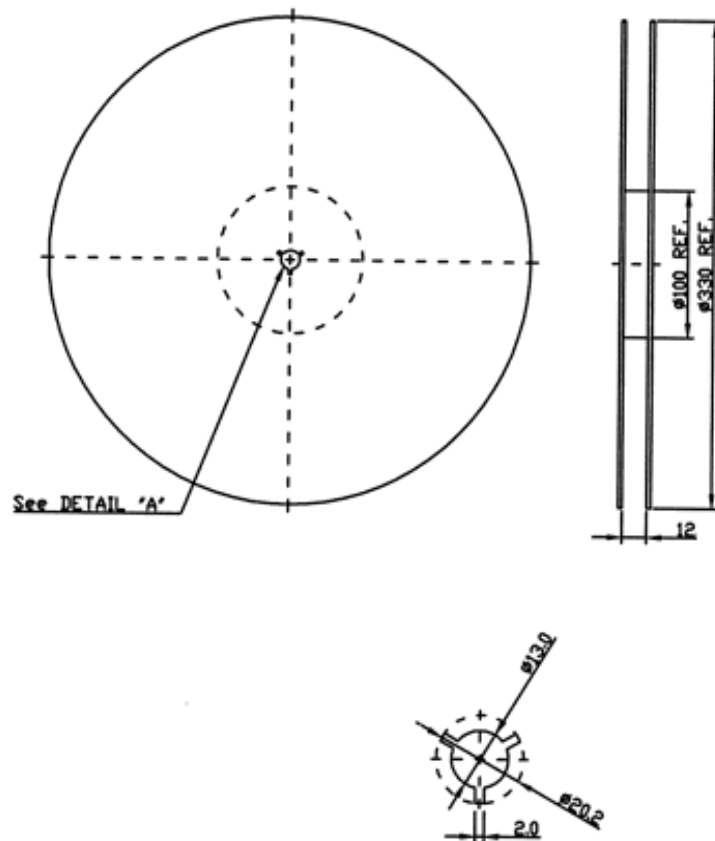


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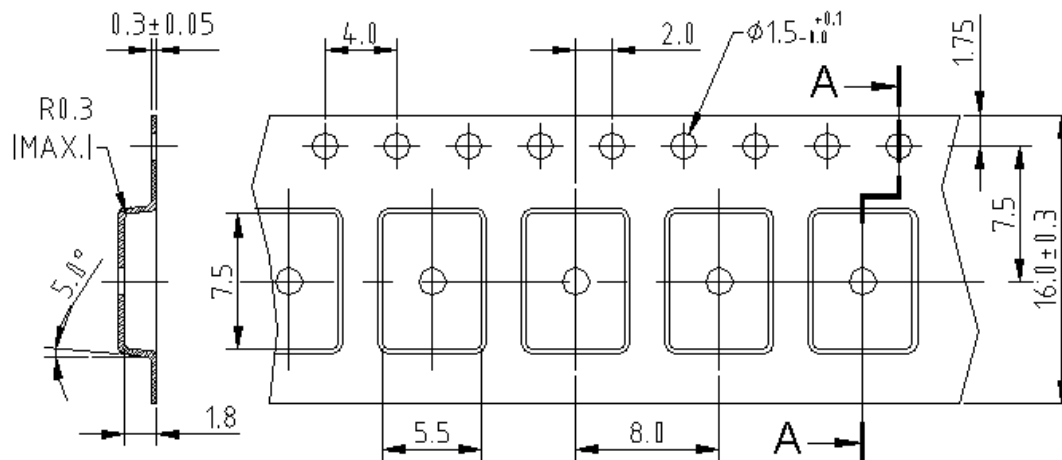
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G. PACKING:

1. Reel Dimension



2. Tape Dimension



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H. RECOMMENDED REFLOW PROFILE:

